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000000000000000000000000000000000000000	A3	4,596,792	06/24/86	Vyas	514	21	03/30/84
000000000	A 4	4,599,230	07/08/86	Milich, et al.	424	189.1	03/09/84
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	A6	4,601,903	07/22/86	Frasch	424	250.1	05/1/85
	A7	4,608,251	08/26/86	Mia	424	185.1	11/09/84
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Other Art (Including Author, Title, Date Pertinent Pages, Etc.) Exam. Ref. Citation Init. Des. C87 Wang et al., "Characterization of the vls antigenic variation loci of the Lyme disease /RS/ spirochaetes Borrelia garinii Ip90 and Borrelia afzelii ACAI," Molecular Microbiology, 47(5):1407-17, 2003. C88 Wang, et al., "Characteristics of the vls Locus of Borrelia garinii Ip90," Abstracts of the General Meeting of the American Society for Microbiology 100th General Meeting, 100:275, 2000. C89 Wilske et al., "Antigenic variation and strain heterogeneity in Borrelia spp," Res. Microbiol., 143:583-596, 1992. C90 Wise and Weaver, "Detection of the lyme disease bacterium, Borrelia burgdorferi, by using the polymerase chain reaction and a nonradioisotopic gene probe," Journal of Clinical Microbiology, 29(7):1523-1526, 1991. C91 Wu and Tokunaga, "Biogenesis of lipoproteins in bacteria," Curr. Top. Microbiol. Immunol., 125:127-157, 1986. C92 Xu and Johnson, "Analysis and comparison of plasmid profile of Borrelia burgdorferi sensu lato strains," J. Clin. Microbiol., 33:2679-2685, 1995. C93 Xu et al., "Correlation of plasmids with infectivity of Borrelia burgdorferi senso stricto type strain B31," Infect. Immun., 64:3870-3876, 1996. C94 Zhang and Norris, "Genetic variation of the Borrelia burgdorferi gene vslE involves cassettespecific, segmental gene conversation," Infect. Immun., 66:3698-3704, 1998. C95 Zhang and Norris, "Kinetics and in vitro induction of genetic variation of visE in Borrelia burgdorferi," Infect. Immun., 66:3689-3697, 1998. C96 Zhang et al., "Antigenic variation in lyme disease borreliae by promiscuous recombination of VMP-like sequence cassettes," Cell, 89:275-285, 1997.

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